

Smart Push-To-Over Cellular Radio PDC550 All in One All in Control



Broadband-narrowband
convergence



Crystal and
loud audio



Large HD
touchscreen



Live streaming



Open platform



Rugged and durable



Overview

Hytera PDC550 Smart Push-to-Talk over Cellular (PoC) radio harnesses the best in both broadband and narrowband technologies. It provides narrowband trunking services such as group call, emergency call, and end-to-end encryption for mission-critical communications. In addition, the PDC550 offers broadband data services such as video call, video upload, and real-time recording.

With unparalleled audio quality and rugged design, the PDC550 gives you confidence in noisy, harsh environments. The large HD touchscreen is visible in direct sunlight and works with wet and gloved hands. The PDC550 is the best choice for those engaged in railway, airport, electricity, firefighting, or more.



Highlights

Broadband-narrowband convergence

The PDC550 can work in broadband and narrowband communication modes. It allows you to make a voice call or video call over the 4G network, or make a voice call in direct mode or repeater mode. So you can always know what is happening and make quick response and right decision at critical moment.



Crystal and loud audio

The built-in 3-watt speaker brings you a loud audio. With the AI-enabled noise reduction and dual-mic noise cancellation technologies, the PDC550 can deliver you the clear and crisp audio even in a noisy downtown, gym, station, or more. Moreover, the howling suppression technology is adopted to prevent feedback howling from multiple radios which are close to each other (no shorter than 3 meters) during transmitting or receiving.

Large HD touchscreen

The 5-inch HD touchscreen is sunlight readable and works with gloves and wet fingers. It makes your daily operation easier and more convenient.



Live streaming

With a 13 MP rear camera and a 5 MP front camera, the PDC550 can capture on-scene videos and feed them to the command center over the 4G network. High-quality video can be seen live anywhere, improving situational awareness and facilitating decision making.

Open platform

Featuring the universal and open Android operating system as well as application program interface (API), the PDC550 can be compatible with various third-party apps and customized apps on the market.



Rugged and durable

Rated at IP68, the PDC550 is made tough to withstand water and dust. Moreover, it can withstand the 1.2-meter drop and extreme temperatures. So it always performs as expected in any harsh environments.

Application Scenarios



Railway



Electricity



Airport



Firefighting



Security Guard

Accessories

Standard

Optional



2,400 mAh Li-ion Polymer Battery



Power Adapter



Charger



Belt Clip



DMR Antenna



Screen Protector



3,500 mAh Li-ion Battery



Programming Cable



Wired C-Earset



BT Earpiece



Ring PTT



Wireless Remote Speaker Microphone



Wired Remote Speaker Microphone



Nylon Carrying Case



Multi-Unit Charger



USB Camera

Specifications

Frequency Band	
DMR/Analog	UHF: 400-470MHz; VHF: 136-174MHz
Public Network	GSM: 850/900/1800/1900 CDMA: BC0 TD-SCDMA: B34/B39 WCDMA: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41 (2555-2655MHz) FDD-LTE: B1/B3/B5/B7/B8/B20/B26/B27/B28

Narrowband	
Channel Spacing	25/12.5KHz
TX Power	UHF: H 4W / L 1W; VHF: H 5W / L 1W
RX Sensitivity	Digital typical value: -110dBm/BER 1% Digital limit value: -116dBm/BER 1% Analog typical value: <0.28uv Analog limit value: <0.22uv
Intermodulation	TIA603 > 70dB; ETS > 65dB
Blocking	>84dB
Suppression of Spurious Response	TIA603 > 70dB ETS > 70dB
Adjacent Channel	25K/TIA603 > 70dB; 12.5K/TIA603 > 60dB 25K/ETS > 70dB; 12.5K/ETS > 60dB
Frequency Stability	±0.5ppm
Audio Output Power	2.5W
Audio Distortion	≤3%

Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
ESD	IEC 61000-4-2, (ESD) ± 12 kV (Air); ± 8 kV (Contact)
Ingress Protection	IP68
Drop-proof	1.2m

Hardware	
Operating System	Android 8.1
Memory	3GB RAM + 32GB ROM
TF Card	128GB(Max)
Dimensions (H x W x D)	155mm*75mm*21.5mm
Weight	About 375 g
Screen Size	5.0 inches
Screen Resolution	1280 x 720
SIM Card	2* Nano-SIM
Location	GPS/BD/GLONASS/ GALILEO/AGPS
Sensor	Gravity/Compass/Proximity/Light
WLAN	2.4GHz, 802.11 b/g/n
BT	BT4.1
NFC	Available
External Interface	13pin defined by Hytera
Battery Capacity	Standard: 2,400 mAh; Optional: 3,500 mAh
Charging Mode	Charger or multi-unit charger
Speaker Power	≤3W
Motor	Available
Camera	Rear camera: 13 MP; Front camera: 5 MP
Flash	Available
Smart Knob	Available (for channel or volume)
Video Resolution	1080P@30fps
Video File Format	MP4, 3GP
Video Encoding	VP8, H.264 (BP/MP/HP), MPEG-4 (SP/ASP), H.263 (HEVC)
Photo File Format	JPG, PNG, GIF, BMP
Certification	
Certification	FCC/IC/CE



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